

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) An apparatus comprising:

a fluid isolator assembly comprising a flexible diaphragm with a central membrane portion and an annular portion depending from the membrane, a distal end of the annular portion connected to a rigid base disposing the membrane substantially parallel to the base, the ~~damping element~~ diaphragm and the base cooperatively defining a sealed chamber; and

a floating body connected to the membrane and moveable therewith within a plane that is parallel to the membrane.

2. (Previously presented) The apparatus of claim 1 wherein the floating body

comprises first and second rigid plates spatially separated by an elastomeric element interposed therebetween, wherein one of the plates is connected to the membrane and otherwise the plates are free-floating.

3. (Previously presented) The apparatus of claim 2 wherein the plates define receiving features mating with the elastomeric element laterally supporting the plates with respect to each other.

4. (Previously presented) The apparatus of claim 1 further comprising a load button connecting the floating body and the flexible diaphragm.
5. (Original) The apparatus of claim 1 wherein the flexible diaphragm comprises a non-elastic flexible fabric.
6. (Previously presented) The apparatus of claim 1 wherein the base defines a passage in fluid communication with the chamber and adapted for transferring a fluid to selectively pressurize the chamber.
7. (Previously presented) The apparatus of claim 1 further comprising a cradle defining a cavity receivingly supporting the base, the cradle further defining an extended load support contactingly engaging a load on the floating body when the chamber is pressurized below a threshold.
8. (Previously presented) The apparatus of claim 1 wherein the chamber is characterized by a quadrilateral lateral cross section.
9. (Previously presented) The apparatus of claim 8 wherein the chamber is characterized by a trapezoidal lateral cross section.
10. (Previously presented) An apparatus comprising:

a fluid isolator assembly comprising a flexible diaphragm which retains fluid in a chamber;

a floating body floatably interfaced relative to the flexible diaphragm, the floating body comprising an elastomeric damping element in series with the fluid isolator assembly; and

wherein the floating body and fluid isolator damp high frequency vibrations from a machine tool supported thereon.

11. (Previously presented) The apparatus of claim 10 wherein the flexible diaphragm comprises a central planar membrane portion and an annular portion extending from the membrane, a distal end of the annular portion attached to a common rigid base.

12. (Previously presented) The apparatus of claim 11 wherein the base defines a passage in fluid communication with the chamber and adapted for transferring a fluid to selectively pressurize the chamber.

13. (Previously presented) The apparatus of claim 10 damping high frequency vibrations in a servo data writing machine.

14. (Withdrawn) An apparatus comprising:

a frame;

a relatively rigid table having a servo writing assembly supported relative to the rigid table; and

at least one isolator interposed between the relatively rigid table and the frame comprising an elastomeric damping element in series with a fluid isolator assembly, the fluid isolator assembly comprising a flexible diaphragm which retains fluid in a chamber.

15. (Withdrawn) The apparatus of claim 14 wherein the servo writing assembly comprises:
a multiple disc spindle assembly to rotatably support a plurality of discs; and
a plurality of servo heads coupled to servo writer circuitry to record servo data to the discs.

16. (Withdrawn) The apparatus of claim 14 wherein the at least one isolator further comprises a load button between the floating body and the diaphragm.

17. (Withdrawn) The apparatus of claim 14 wherein the frame comprises a first portion and a second raised portion elevated above the first portion, and wherein at least one isolator is disposed between the first portion and the rigid table and at least one isolator is disposed between the second raised portion and the rigid table.

18. (Previously presented) A method comprising steps of:
supplying fluid to a fluid isolator assembly to floatably support a floating body comprising an elastomeric damping element in series with the fluid isolator assembly; and

damping simultaneously both high frequency and low frequency vibration in a machine tool supported by the floating body through the fluid isolator assembly in series with the floating body.

19. (Original) The method of claim 18, wherein the step of damping vibration comprises exchanging fluid through a fluid passageway of the fluid isolator assembly.

20. (Withdrawn) A servo data writing assembly adapted for carrying out the method of claim 18.

21. (Currently amended) An isolator assembly ~~in a machine tool~~ that is adapted for damping simultaneously both high frequency and low frequency vibration by supporting a portion of ~~the~~ a machine tool on a floating elastomeric member that is pressingly engageable against a flexible planar membrane of a diaphragm.

22. (Previously presented) The isolator assembly of claim 21 wherein the diaphragm comprises a flexible annular portion depending from the membrane, a distal end of the annular portion attached to a common base defining a sealed chamber.

23. (Previously presented) The isolator assembly of claim 22 wherein the membrane is operably disposed substantially parallel to the base.

24. (Previously presented) The isolator assembly of claim 23 wherein the chamber is substantially a truncated cone shape.